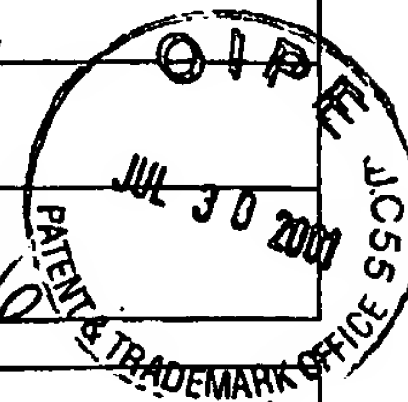


Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12279-002001	Application No. 09/785,632
	Applicant Jin-Soo Kim, <i>et al.</i>		
	Filing Date 2-16-01	Group Art Unit 1645 1636	



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Examiner Initial	Desig. ID	Patent No.	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
DMC	AA	5,096,815	03/17/1992	Ladner <i>et al.</i>	—	—	
	AB	5,223,409	06/29/1993	Ladner <i>et al.</i>	—	—	
	AC	5,571,698	11/05/1996	Ladner <i>et al.</i>	—	—	
	AD	5,580,736	12/03/1996	Brent <i>et al.</i>	—	—	
	AE	5,667,973	09/16/1997	Fields <i>et al.</i>	—	—	
	AF	5,763,209	06/09/1998	Sukhatme	—	—	
	AG	5,773,583	06/30/1998	Sukhatme	—	—	
	AH	5,837,500	11/17/1998	Ladner <i>et al.</i>	—	—	
	AI	5,866,325	02/02/1999	Sukhatme	—	—	
	AJ	5,882,941	03/16/1999	Essigmann <i>et al.</i>	—	—	
	AK	6,007,988	12/28/1999	Choo <i>et al.</i>	—	—	
	AL	6,013,453	01/11/2000	Choo <i>et al.</i>	—	—	
	AM	6,107,059	08/22/2000	Hart	—	—	
	AN	5,763,209	06/09/1988	Sukhatme	—	—	
	AO	5,789,538	08/04/1998	Rebar <i>et al.</i>	—	—	

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document No.	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
DMC	AP	WO 93/14108	07/22/1993	PCT	—	—		
	AQ	WO 95/19431	07/20/1995	PCT	—	—		
	AR	WO 96/06110	02/29/1996	PCT	—	—		
	AS	WO 96/06166	02/29/1996	PCT	—	—		
	AT	WO 96/06188	02/29/1996	PCT	—	—		
	AU	WO 96/20951	07/11/1996	PCT	—	—		
	AV	WO 98/24931	06/11/1998	PCT	—	—		
	AW	WO 98/53057	11/26/1998	PCT	—	—		
	AX	WO 98/53058	11/26/1998	PCT	—	—		

Examiner Signature <i>S. McRehney</i>	Date Considered 5/2/04
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Examiner Initial	Desig. ID	Document No.	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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Tme	AY	WO 98/53059	11/26/1998	PCT				
	AZ	WO 98/53060	11/26/1998	PCT				
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	ABB	WO 99/30164	06/17/1999	PCT				
	ACC	WO 99/42474	08/26/1999	PCT				
	ADD	WO 99/45132	09/10/1999	PCT				
	AEE	WO 99/48909	09/30/1999	PCT				
	AFF	WO 00/09755	02/24/2000	PCT				
	AGG	WO 00/15777	03/23/2000	PCT				
	AHH	WO 00/23464	04/27/2000	PCT				
	AII	WO 00/41566	07/20/2000	PCT				
	AJJ	WO 00/42219	07/20/2000	PCT				
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✓	ALL	WO 96/32475	10/17/1996	PCT				

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Examiner Initial	Desig. ID	Document
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	ANN	Baban <i>et al.</i> , "Transcripts from a Novel Human KRAB Zinc Finger Gene Contain Spliced Alu and Endogenous Retroviral Segments," <u>Genomics</u> , 33:463-472 (1996)
	AOO	Beerli <i>et al.</i> , "Positive and Negative Regulation of Endogenous Genes By Designated Transcription Factors," <u>Proc. Natl. Acad. Sci. USA</u> , 97:1495-1500 (1999)
	APP	Bianchi <i>et al.</i> , "A Conformationally Homogenous Combinatorial Peptide Library," <u>J. Mol. Bio.</u> , 247:154-160 (1995)
	AQQ	Blok <i>et al.</i> , "Characterization of an Early Growth Response Gene, Which Encodes a Zinc Finger Transcription Factor, Potentially Involved in Cell Cycle Regulation," <u>Molecular Endocrinology</u> , 9:1610-1619 (1995)
	ARR	Cheng <i>et al.</i> , "Selection of Peptides That Functionally Replace a Zinc Finger in the Sp1 Transcription Factor By Using a Yeast Combinatorial Library," <u>Proc. Natl. Acad. Sci. USA</u> , 94:14120-14125 (1997)
✓	ASS	Cowell <i>et al.</i> , "Structural rearrangements of the WT1 gene in Wilms' tumour cells," <u>Oncogene</u> , 6:595-599 (1991)

Examiner Signature <i>J. McKelvey</i>	Date Considered 5/2/04
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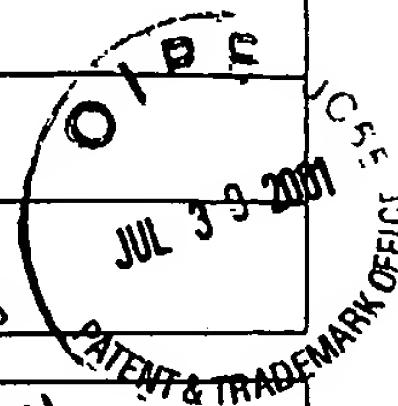
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	Filing Date 2-16-01	Group Art Unit 1645/636	



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Jme	ATT	Choo <i>et al.</i> , "Selection of DNA Binding Sites For Zinc Fingers Using Rationally Randomized DNA Reveals Coded Interactions," <i>Proc. Natl. Acad. Sci. USA</i> , 91:11168-11172 (1994)
	AUU	Choo <i>et al.</i> , "Forward a Code for the Interactions of Zinc Fingers With DNA: Selection of Randomized Fingers Displayed on Phage," <i>Proc. Natl. Acad. Sci. USA</i> , 91:11163-11167 (1994)
	AVV	Choo <i>et al.</i> , "In Vivo Repression By a Site-Specific DNA-Binding Protein Designed Against An Oncogenic Sequence," <i>Nature</i> , 372:642-645 (1994)
	AWW	Desjarlais <i>et al.</i> , "Use of a Zinc-finger Consensus Sequence Framework and Specificity Rules to Design Specific DNA Binding Proteins," <i>Proc. Natl. Acad. Sci. USA</i> , 90:2256-2260 (1993)
	AXX	Desjarlais <i>et al.</i> , "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," <i>Proteins: Structure, Functions and Genetics</i> , 12:101-104 (1992)
	AYY	Greisman <i>et al.</i> , "A General Strategy For Selecting High-Affinity Zinc Finger Proteins For Diverse DNA Target Sites," <i>Science</i> , 275:657-661 (1997)
	AZZ	Han <i>et al.</i> , "Molecular Cloning of Six Novel <i>Kruppel</i> -like Zinc Finger Genes From Hematopoietic cells and Identification of a Novel Transregulatory Domain KRNB," <i>J. Biol. Chem.</i> , 274:35741-35748 (1999)
	AAAA	Hosokawa <i>et al.</i> , "Human Aiolos, an Ikaros-Related Zinc Finger DNA Binding Protein: cDNA Cloning, Tissue Expression Pattern, and Chromosomal Mapping," <i>Genomics</i> , 61:3 (1999)
	ABBB	Hussey <i>et al.</i> , "Characterization of a KRAB Family Zinc Finger Gene, ZNF195, Mapping to Chromosome Band 11p15.5," <i>Genomics</i> , 45:451-455 (1997)
	ACCC	Jamieson <i>et al.</i> , "A Zinc Finger Directory For High-Affinity DNA Recognition," <i>Proc. Natl. Acad. Sci. USA</i> , 93:12834-12839 (1996)
	ADDD	Joung <i>et al.</i> , "A Bacterial Two-Hybrid Selections System For Studying Protein-DNA and Protein-Protein Interactions," <i>Proc. Natl. Acad. Sci. USA</i> , 97:7382-7387 (2000)
	AEEE	Kang <i>et al.</i> , "Zinc Finger Proteins as Designer Transcription Factors," <i>J. Biol. Chem.</i> , 275:8742-8748 (2000)
	AFFF	Kas <i>et al.</i> , "Transcriptional Activation Capacity of the Novel PLAG Family of Zinc Finger Proteins*," <i>J. Biol. Chem.</i> , 273:23026-23032, (1998)
	AGGG	Kim <i>et al.</i> , "Transcriptional Repression By Zinc Finger Peptides," <i>J. Biol. Chem.</i> , 272:29795-29800 (1997)
	AHHH	Kim <i>et al.</i> , "Getting a Handhold on DNA: Design of Poly-Zinc Proteins With Femtomolar Dissociation Constants," <i>Proc. Natl. Acad. Sci. USA</i> , 95:2812-2817 (1998)
	AIII	Klug, "Zinc Finger Peptides For the Regulation of Gene Expression," <i>J. Biol. Chem.</i> , 273:215-218 (1999)
	AJJJ	Lanfranccone <i>et al.</i> , "Structural and Functional Organization of the HF.10 Human Zinc Finger Gene (ZNF35) Located on Chromosome 3P21-p22," <i>Genomics</i> , 12:720-728 (1992)
	AKKK	Lania <i>et al.</i> , "cDNA Isolation, Expression Analysis, and Chromosomal Localization of Two Human Zinc Finger Genes," <i>Genomics</i> , 6:333-340 (1990)
	ALLL	Le Chalony <i>et al.</i> , "The OZF Gene Encodes a Protein Consisting Essentially of Zinc Finger Motifs," <i>J. Mol. Biol.</i> , 236:339-404 (1994)
✓	AMMM	Liu <i>et al.</i> , "Design of Polydactyl Zinc-Finger Proteins For Unique Addressing Within Complex Genomes," <i>Proc. Natl. Acad. Sci. USA</i> , 94:5525-5530 (1997)

Examiner Signature <i>J M Kelly</i>	Date Considered 5/2/04
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12279-002001	Application No. 09/785,632
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Jin-Soo Kim, <i>et al.</i>	
		Filing Date 2-16-01	Group Art Unit 1645 (636)


Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
JMc	ANNN	Nagase <i>et al.</i> , "Prediction of the Coding Sequence of Unidentified Human Genes XVIII. The Complete Sequences of 100 New cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ," <u>DNA Research</u> , 7:273-281 (2000)
	AOOO	Nardelli <i>et al.</i> , "Zinc Finger-DNA Recognition: Analysis of Base Specificity By Site-Directed Mutagenesis," <u>Nucleic Acids Research</u> , 20:4137-4144 (1992)
	APPP	Odenberg <i>et al.</i> , "Cloning and Characterization of ZNF189, a Novel Human Kruppel-like Zinc Finger Gene Localized to Chromosome 9q22-q31," <u>Genomics</u> , 50:213-221 (1998)
	AQQQ	Oguri <i>et al.</i> , "The Kruppel-type zinc finger family gene, HKR1, is induced in lung cancer by exposure to platinum drugs," <u>Gene</u> , 222:61-67 (1998)
	ARRR	Poncelet <i>et al.</i> , "Functional Analysis of ZNF85 KRAB Zinc Finger Protein, a Member of the Highly Homologous ZNF91 Family," <u>DNA and Cell Biology</u> , 17:931-943 (1998)
	ASSS	Ratziu <i>et al.</i> , Zf9, a ruppel-like transcription factor up-regulated <i>in vivo</i> during early hepatic fibrosis," <u>Proc. Natl. Acad. Sci. USA</u> , 95:9500-9505 (1998)
	ATTT	Rebar, <i>et al.</i> , "Zinc Finger Phage: Affinity Selection of Fingers With New DNA-Binding Specificities," <u>Science</u> , 263:671-673 (1994)
	AUUU	Scanlan <i>et al.</i> , "Antigens Recognized by Autologous Antibody in Patients with Renal-Cell Carcinoma," <u>Int. J. Cancer</u> 83:456-464 (1999)
	AVVV	Song <i>et al.</i> , "RFLAT-1: A New Zinc Finger Transcription Factor that Activates RANTES Gene Expression in T Lymphocytes," <u>Immunity</u> , 10:93-103 (1999)
	AWWW	Thukral, "Mutations in the Zinc Fingers of ADR1 That change the Specificity of DNA Binding and Transactivation," <u>Molecular and Cellular Biology</u> , 12:2784-2792 (1992)
	AXXX	Tommerup <i>et al.</i> , "Isolation and Fine Mapping of 16 Novel Human Zinc Finger-Encoding cDNAs Identify Putative Candidate Genes for Developmental and Malignant Disorders," <u>Genomics</u> , 27:259-264 (1995)
	AYYY	Tunnacliffe <i>et al.</i> , "Duplicated KOX zinc finger gene clusters flank the centromere of human chromosome 10: evidence for a pericentric inversion during primate evolution," <u>Nucleic Acids Research</u> , 21:1409-1417 (1993)
	AZZZ	Widom <i>et al.</i> , "Cloning and characterization of hKrox, a transcriptional regulator of extracellular matrix gene expression," <u>Gene</u> , 198:407-420 (1997)
	AAAAA	Wu <i>et al.</i> , "Building Zinc Fingers By Selection: Toward a Therapeutic Application," <u>Proc. Natl. Acad. Sci. USA</u> , 92:344-348 (1995)
	ABBBB	Yet <i>et al.</i> , "Human EZF, a Kruppel-like Zinc Finger Protein, Is Expressed in Vascular Endothelial Cells and Contains Transcriptional Activation and Repression Domains," <u>J. Biol. Chem.</u> , 273:1026-1031 (1998)
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	ADDDD	GenBank Accession No. AC022415, 22-DEC-2000
	AEEEE	GenBank Accession No. D88827, 18-MAR-1999
	AFFFF	GenBank Accession No. AF155100, 05-JAN-2000
	AGGGG	GenBank Accession No. AB046779, 22-FEB-2001
✓	AHHHH	GenBank Accession No. AF285443, 10-NOV-2000

Examiner Signature

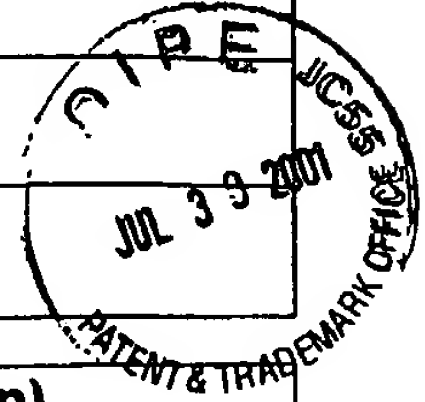
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	Applicant Jin-Soo Kim, <i>et al.</i>			
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Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
JMC	AIII	GenBank Accession No. NM 012481, 02-NOV-2000
	AJJJ	GenBank Accession No. NM 002655, 31-OCT-2000
	AKKK	GenBank Accession No. XM 016057, 16-APR-2001
	ALLL	GenBank Accession No. NM 015872, 02-NOV-2000
	AMMM	GenBank Accession No. XM 016057, 16-APR-2001
	ANNN	GenBank Accession No. NM 015872, 02-NOV-2000
	AOOO	GenBank Accession No. AC005261, 06-JUL-1998
	APPP	GenBank Accession No. AB013897, 03-NOV-1999
	AQQQ	GenBank Accession No. NM 003452, 01-NOV-2000

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(37 CFR §1.98(b))

Applicant
Jin-Soo Kim, et al.Filing Date
February 16, 2001Group Art Unit
1645 1636

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
Jme	BA	6,242,568	06/05/2001	Barbas, III et al.			
	BB						
	BC						

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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
Jme	BD	WO 01/40798	06/07/2001	WIPO				
	BE	GB 2 348 424	03/14/2001	United Kingdom				
	BF	GB 2 348 425	10/17/2001	United Kingdom				
	BG							
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Other Documents (include Author, Title, Date, and Place of Publication)

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Jme	BI	Beerli et al., "Toward controlling gene expression at will: Specific regulation of the <i>erbB-2/HER-2</i> promoter by using polydactyl zinc finger proteins constructed from modular building blocks", <i>Proc. Natl. Acad. Sci. USA</i> 95:14628-14633 (1998)
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	BK	Pomerantz et al., "Structure-Based Design of Transcription Factors", <i>Science</i> 267:93-96 (1995)
	BL	Rivera et al., "A humanized system for pharmacologic control of gene expression", <i>Nature Medicine</i> 2:1028-1032 (1996)
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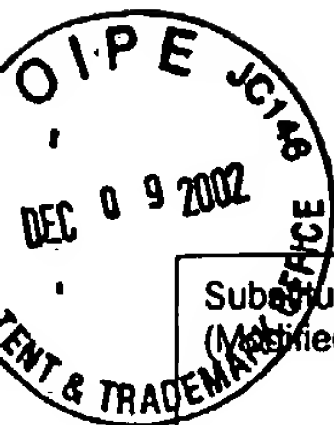
Examiner Signature

J. McKeown

Date Considered

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Sheet 1 of 2Substitute Form PTO-1449
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1636**RECEIVED**
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	CC						
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	CE						
	CF						
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	CH						
	CI						
	CJ						

Foreign Patent Documents or Published Foreign Patent Applications

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	CK							
	CL							
	CM							
	CN							
	CO							

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JMK	CP	Bartsevich & Juliano, "Regulation of the MDR1 gene by transcriptional repressors selected using peptide combinatorial libraries", <i>Mol. Pharmacol.</i> 58:1-10 (2000)
	CQ	Brent & Ptashne, "A eukaryotic transcriptional activator bearing the DNA specificity of a prokaryotic repressor", <i>Cell</i> 43:729-736 (1985)
	CR	Chevray & Nathans, "Protein interaction cloning in yeast: Identification of mammalian proteins that react with the leucine zipper of Jun", <i>Proc. Natl. Acad. Sci.</i> 89:5789-5793 (1992)
	CS	Choo & Klug, "Physical basis of a protein-DNA recognition code", <i>Curr. Opin. Struct. Biol.</i> 7:117-125 (1997)
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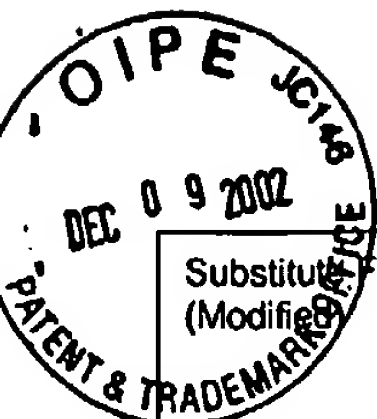
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Sheet 2 of 2

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Applicant
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1636**RECEIVED**
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JMC	CU	Dreier <i>et al.</i> , "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors", <i>J. Biol. Chem.</i> 276:29466-29478 (2001)
	CV	Elrod-Erickson <i>et al.</i> , "High-resolution structures of variant Zif268-DNA complexes: implications for understanding zinc finger-DNA recognition", <i>Structure</i> 6:451-464 (1998)
	CW	Gogos <i>et al.</i> , "Recognition of diverse sequences by class I zinc fingers: Asymmetries and indirect effects on specificity in the interaction between CF2II and A+T-rich sequence elements", <i>Proc. Natl. Acad. Sci. USA</i> 93:2159-2164 (1996)
	CX	Hsu <i>et al.</i> , "Multiple zinc finger forms resulting from developmentally regulated alternative splicing of a transcription factor gene", <i>Science</i> 257:1946-1950 (1992)
	CY	Hudson, Jr. <i>et al.</i> , "The complete set of predicted genes from <i>Saccharomyces cerevisiae</i> in a readily usable form", <i>Genome Res.</i> 7:1169-1173 (1997)
	CZ	Isalan <i>et al.</i> , "A rapid, generally applicable method to engineer zinc fingers illustrated by targeting the HIV-1 promoter", <i>Nat. Biotechnol.</i> 19:656-660 (2001)
	CAA	Jamieson <i>et al.</i> , "In vitro selection of zinc fingers with altered DNA-binding specificity", <i>Biochemistry</i> 33:5689-5695 (1994)
	CBB	Liu <i>et al.</i> , "Regulation of an endogenous locus using a panel of designed zinc finger proteins targeted to accessible chromatin regions", <i>J. Biol. Chem.</i> 276:11323-11334 (2001)
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	CEE	Pavletich & Pabo, "Zinc finger-DNA recognition: Crystal structure of a Zif268-DNA complex at 2.1 Å", <i>Science</i> 252:809-817 (1991)
	CFF	Ren <i>et al.</i> , "PPARγ knockdown by engineered transcription factors: exogenous PPARγ2 but not PPARγ1 reactivates adipogenesis", <i>Genes & Dev.</i> 16:27-32 (2002)
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	CHH	Sera & Uranga, "Rational design of artificial zinc-finger proteins using a nondegenerate recognition code table", <i>Biochemistry</i> 41:7074-7081 (2002)
	CII	Taylor <i>et al.</i> , "Designing zinc-finger ADR1 mutants with altered specificity of DNA binding to T in UAS1 sequences", <i>Biochemistry</i> 34:3222-3230 (1995)
	CJJ	Wang & Reed, "Molecular cloning of the olfactory neuronal transcription factor Olf-1 by genetic selection in yeast", <i>Nature</i> 364:121-126 (1993)
	CKK	Wolfe <i>et al.</i> , "Beyond the 'recognition code': Structures of two Cys ₂ His ₂ zinc finger/TATA box complexes", <i>Structure</i> 8:717-723 (2001)
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V	CMM	Zhang <i>et al.</i> , "Synthetic zinc finger transcription factor action at an endogenous chromosomal site: Activation of the human erythropoietin gene", <i>J. Biol. Chem.</i> 275:33850-33860 (2000)

Examiner Signature

Date Considered

5/2/04

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.